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MEDICAL OFFICER'S REPORT.

1907.

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1907.

Willington Urban District.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH.

To the Willington Urban District Council.

GENTLEMEN,

The following is my report for the year 1907.

VITAL STATISTICS.

	Estimated Population, 1907.	Birth-rate.	Death-rate.	Zymotic-rate.	Infant Mortality.
Willington ...	5217	39·29	17·05	2·49	131
Stockley	2732	32·57	12·81	1·83	168
Whole District ...	7949	36·98	15·59	2·26	142

DEATHS.

The deaths registered in 1907 as occurring in or belonging to Willington numbered 89, and in Stockley 35, making a rate of 17·05 per thousand for the former, and 12·81 for the latter, and for the whole district 15·59 ; which is 1·41 less than that for the previous year, and the same amount below the County death-rate. This includes 13 deaths which occurred in institutions out of the district but belonging to it. There were 7 deaths of persons in the district who did not belong to it, and these being deducted would make a rate of 14·71 per thousand.

The deaths which took place in institutions out of the district were: Union Workhouse, Durham, 6; County Hospital, 5; Isolation Hospital, 2.

INFECTIOUS DISEASES.

In Willington 13 deaths occurred from Infectious Diseases, making a rate of 2·49 per thousand. Under 5 years of age there were: Scarlet Fever 2, Measles 5, Whooping Cough 2, Diarrhœa 3; Over 5 years: Measles 1.

In Stockley there were 5 deaths, all under 5 years, and were: Whooping Cough 3, Diarrhœa 2.

The rate for the whole district equals 2·26 per thousand, and is ·25 higher than that of the previous year and ·28 above the County rate.

INFANT MORTALITY.

There were 27 deaths of infants under 1 year of age in Willington, representing 13·1 per cent. of the births registered during the year. In Stockley there were 15 deaths, making 16·8 per cent. of the births, and in the whole district 42 deaths, or 14·2 per cent. This is 4·4 per cent. below that of the previous year and ·6 per cent. higher than the County rate. The causes will be found under their proper headings in Table IV.

HEART DISEASE.

This caused 8 deaths among persons belonging to Willington, and 1 belonging to Stockley, and representing a rate of 1·13 per thousand for the whole district.

PHTHISIS.

Consumption caused 3 deaths in Willington and 1 in Stockley but of a person belonging to another district. This represents a rate for the whole district of ·50 per thousand inhabitants, which is half that of the year previous and also ·47 below the County rate.

OTHER TUBERCULAR DISEASES

Caused one death, representing a rate of ·12, and ·68 below the County rate.

BRONCHITIS.

This caused 13 deaths in Willington, 8 being under and 5 over 5 years of age, and representing a rate of 2·49.

In Stockley there were 2 deaths under 5 years of age, making a rate of ·73.

The rate for the whole district is 1·88 and is the same as that for the previous year.

PNEUMONIA.

There were 7 deaths in Willington, 2 being under and 5 over 5 years of age, and 2 in Stockley, 1 under and 1 over 5 years, and making a rate of 1·13 for the whole district, and ·25 above the previous year.

Pleurisy and other Respiratory Diseases.

No deaths occurred.

BIRTHS.

In Willington there were 100 males and 105 females registered, making a total of 205.

In Stockley, 51 males and 38 females, making a total of 89.

Total for the whole district, 294, which is 37 more than the births in the previous year, and 21 more than in 1905. The birth-rate is therefore 36·98, as compared with 32·37 for 1906.

INQUESTS.

Causes of deaths as found at Coroner's Inquests :—

1. Blood poisoning from accident received whilst at work in Coal Mine.
2. Killed by fall of stone in Coal Mine.
3. Shock arising from burns accidentally received by clothes becoming ignited at unguarded fire.
4. Heart failure whilst at work in Coal Mine.

Four deaths were uncertified.

TABLE I.

Vital Statistics of Whole District during 1907 and previous years.

Year.	Population estimated to Middle of each year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Institutions in the District.	Death of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	Nett Deaths at all Ages belonging to the District.	
				Under 1 year of age		At all ages.						
		Number.	Rate*	Number.	Rate per 1,000 Births registered.	Number.	Rate*				Number.	Rate.*
1	2	3	4	5	6	7	8	9	10	11	12	13
1897	7853	281	35·78	34	121	133	16·93			3	136	17·31
1898	7862	306	38·92	58	189	132	16·78			3	135	17·17
1899	7870	263	33·41	44	167	130	16·51			4	134	17·02
1900	7878	285	36·17	66	231	161	20·43			4	165	20·94
1901	7887	304	38·54	51	167	152	19·27			8	160	20·28
1902	7897	284	35·96	37	130	120	15·19			5	125	15·82
1903	7907	291	36·80	45	154	122	15·42			11	133	16·82
1904	7918	277	34·98	49	176	154	19·44			5	159	20·08
1905	7928	273	34·43	32	117	116	14·63			12	128	16·14
1906	7938	257	32·37	48	186	135	17·00			6	141	17·76
Averages for years 1897–1906	7893	282	35·73	46	163	135	17·16			6·1	141	17·93
1907	7949	294	36·98	42	142	117	14·71			13	124	15·59

* Rates in Column 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) ... 3795·138.

Total population at all ages ... 7887
Number of inhabited houses ... 1607
Average number of persons per house 4·9
} At Census of 1901.

Institutions within the District receiving sick and infirm persons from outside the District :—None.

Institutions outside the District receiving sick and infirm persons from the District :—Durham Union Workhouse ; Durham County Hospital ; Isolation Hospital, Helmington Row.

Other Institutions, the deaths in which have been distributed among the several localities in the District :—County Asylum, Sedgefield.

TABLE II.

Vital Statistics of separate Localities in 1907 and previous years.

Names of Localities	WHOLE DISTRICT.				WILLINGTON.				STOCKLEY.			
Year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all Ages.	Deaths under 1 year.
	a.	*b.*	*c.*	*d.*	*a.*	*b.*	*c.*	*d.*	*a.*	*b.*	*c.*	*d.*
1897	7853	281	136	34	5147	185	95	21	2706	92	41	13
1898	7862	306	135	58	5155	207	93	39	2707	99	42	19
1899	7870	203	134	44	5161	177	82	24	2709	86	52	20
1900	7878	285	165	66	5168	197	114	47	2710	88	51	19
1901	7887	304	160	51	5175	211	103	34	2712	93	57	17
1902	7897	284	125	37	5182	200	91	29	2715	84	34	8
1903	7907	291	133	45	5188	181	103	34	2719	110	30	11
1904	7918	277	159	49	5195	190	115	34	2723	87	44	15
1905	7928	273	128	32	5202	189	85	22	2726	84	43	10
1906	7938	257	141	48	5209	182	104	35	2729	75	37	13
Averages of years 1897–1906	7893	282	141	46	5178	191	98	31	2715	89	43	14
1907	7949	294	124	42	5217	205	89	27	2732	89	35	15

TABLE III.

Cases of Infectious Disease notified during the Year 1907.

Notifiable Disease.	Cases Notified in Whole District.							Total Cases notified in each Locality.		No. of Cases removed to Hospital from each Locality.		Total Cases removed to Hospital.
	At all Ages.	At Ages—Years.						Willington.	Stockley.	Willington.	Stockley.	
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards.					
Diphtheria	6	...	3	2	...	1	...	2	4	1	...	1
Erysipelas	11	...	1	...	...	7	3	7	4	...	...	...
Scarlet Fever	36	...	14	22	...	...	...	31	5	30	5	35
Enteric Fever	2	...	...	...	1	1	...	2	...	1	...	1
Totals	55	...	18	24	1	9	3	42	13	32	5	37

Isolation Hospital—Helmington Row.

TABLE IV.

Causes of, and Ages at, Death during Year 1907.

CAUSES OF DEATH.	Deaths at the subjoined ages of "Residents" whether occurring in or beyond the District.							Deaths at all Ages of "Residents" belonging to localities, whether occurring in or beyond the District.		Total Deaths whether of "Residents" or "non-Residents" in Public Institutions in the District.
	All Ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Willington.	Stockley.	
Measles	9	2	6	1	...	...	...	6	3	...
Scarlet Fever	2	...	2	...	...	...	...	2	...	...
Whooping Cough ...	2	2	...	...	...	...	...	2	...	...
Epidemic Influenza ...	4	...	...	...	...	2	2	3	1	...
Diarrhœa	6	3	2	...	...	...	1	4	2	...
Enterititis	3	3	...	...	...	...	...	1	2	...
Erysipelas	1	...	...	...	...	...	1	...	1	...
Phthises (Pulmonary Tuberculosis) ...	4	...	...	...	...	4	...	3	1	...
Other tubercular diseases	1	...	...	...	...	1	...	1	...	...
Cancer, Malignant disease	2	...	...	...	...	...	2	2	...	...
Bronchitis	15	8	2	...	...	3	2	13	2	...
Pneumonia	9	3	...	...	...	3	3	7	2	...
Premature Birth ...	6	6	...	...	...	...	...	4	2	...
Diseases and accidents of parturition	1	...	...	...	1	...	...	1	...	...
Heart Diseases	12	...	...	...	...	7	5	11	1	...
Accidents	4	...	2	...	1	...	...	1	3	...
Suicides	...	...	...	...	...	1	...	...	...	...
All other causes	43	15	2	...	1	8	17	28	15	...
All Causes ...	124	42	16	1	3	29	33	89	35	...

TABLE V.

Infantile Mortality during the year 1907.

Deaths from stated Causes in Weeks and Months under One Year of Age.

CAUSE OF DEATH.		Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months	Total Deaths under 1 Year.
All Causes.	Certified	5	3	1	2	11	2	1	...	1	2	3	1	1	2	1	1	26
	Uncertified	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
Common Infectious Diseases.	Measles	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Whooping Cough	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	2
Diarrhœal Diseases.	Diarrhœa, all forms ...	...	1	1	...	2	...	...	...	...	...	...	...	...	1	...	...	3
	Gastritis, Gastro-intestinal Catarrh	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
Wasting Diseases.	Premature Birth	4	...	...	...	4	...	...	...	...	...	...	...	...	...	...	..	4
	Congenital Defects	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
	Atrophy, Debility, Marasmus	...	2	...	...	2	2	1	...	...	...	...	...	...	...	...	...	5
	Convulsions	1	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	2
	Bronchitis	...	...	...	2	2	...	...	...	1	1	1	...	1	...	...	...	6
	Pneumonia	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	2
		6	3	1	2	12	2	1		1	2	3	1	1	2	1	1	27

District (or sub-division) of Willington.

Deaths from all Causes at all Ages—89.

Births in the year { Legitimate / Illegitimate

Population.
Estimated to middle of 1907.
5,217.

TABLE V.—Continued.

	CAUSE OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.
All Causes.	Certified	2	1	1	1	5	...	1	1	1	...	3	...	...	...	2	2	15
	Uncertified	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Measles	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Enteritis, Muco-enteritis, Gastro-enteritis	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	2
Wasting Diseases.	Premature Birth	1	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	2
	Congenitial Defects	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1
	Atrophy, Debility, Marasmus	...	1	1	...	2	...	...	...	...	...	...	...	...	...	...	...	2
	Convulsions	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	1	3
	Bronchitis	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	2
	Pneumonia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Other Causes	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	1
		2	1	1	1	5	...	1	1	1	...	3	...	...	...	2	2	15

District (or sub-division) of Stockley.

Population
Estimated to middle of 1907.
2732.

Deaths from all Causes at all Ages—35.

Births in the Year { Legitimate
Illegitimate

INFECTIOUS DISEASES.

In Willington, the following infectious diseases were notified :—Diphtheria 2, Scarlet Fever 31, Erysipelas 6, and Typhoid Fever 2. Total 41.

In Stockley :—Diphtheria 4, Scarlet Fever 5, and Erysipelas 5. Total 14. Total for the Whole District 51 or 26 more than previous year but 31 below 1905.

Undoubtedly there would have been many more cases occurring had there been no proper means of isolation, but I am pleased to say that by the removal of 37 of these infectious cases to the Isolation Hospital at Helmington Row, which is a convenient distance away, there has, I think, been a serious epidemic prevented. This hospital is one of the two erected by the Auckland, Shildon and Willington Joint Hospital Board. As a rule, when admitted, the children readily become attached to their surroundings and nurses, the latter making them as comfortable and happy as it is possible to be, and generally speaking there is little difficulty in obtaining the consent of the parents to their removal, knowing, as they do, that everything that can be done for their comfort and ultimate recovery from their ailments will be done.

Of the cases removed to hospital 32 belonged to Willington and 5 to Stockley and the diseases were as follows :—

Diphtheria ...	...	...	1
Scarlet Fever ...	...	...	35
Typhoid Fever	...	...	1
	Total	...	37

These have all been discharged cured with the exception of 2 cases of Scarlet Fever which died.

DIPHTHERIA AND MEMBRANOUS CROUP.

In Willington there were 2 cases under 5 years of age and 4 in Stockley, 1 being under and 3 over 5 years of age, making 6 for the whole

District. There were no deaths.

One of these cases was attributed to a defective drain existing about the farm buildings where the patient resided. This was remedied. The other cases were due, no doubt, to insanitary surroundings.

The Council supplies Anti-diphtheritic Serum gratuitously through the M.O.H. to medical practitioners who desire to employ it in cases occurring in their district.

INFLUENZA

Was epidemic at the commencement of the year and continued to the end of February when it died out. It appeared again in October and became prevalent towards the end of the year. It caused 4 deaths, 3 in Willington and 1 in Stockley.

MEASLES

Occurred in May and became epidemic in June and July necessitating the closure of the schools in the Willington area. Odd cases kept springing up from September to November when it disappeared. It caused 9 deaths, 6 being in Willington of which 5 were under 5 years of age and 1 over 5, and 3 in Stockley all over 5 years and making a death-rate of 1·13 per thousand for the Whole District.

TYPHOID FEVER.

There were 2 cases in Willington, and none in Stockley. As the cases belonged the same house and that house in Nelson Street the insanitary condition of the ground in the immediate neighbourhood may be blamed for its origin.

ERYSIPELAS.

In Willington there were 6 cases, and in Stockley 5, with 1 death.

SCARLET FEVER.

Thirty-one cases occurred in Willington, 11 being under and 20 over 5 years of age.

In Stockley there were 5 cases, 3 under and 2 over 5 years. Thirty-five of these were removed to hospital and there were 2 deaths. The bedding was disinfected and the houses stoved in every instance.

By the prompt removal of these cases to hospital there was, undoubtedly, an epidemic of the disease prevented. The first cases were, as far as I could ascertain, introduced into the district from another district.

The milk supply was, in every instance, found to be satisfactory and no case could be traced to it.

DIARRHŒA

Was at no time prevalent but isolated cases occurred and caused 6 deaths, 4 being in Willington, 3 under and 1 over 5 years of age, and 2 in Stockley under 5. This is 5 less than the deaths during the previous year and gives a rate of ·75 as compared with 1·76 for that year.

Three of the deaths were of infants under 1 year of age.

SMALLPOX.

No cases occurred.

WHOOPING COUGH.

This disease was prevalent during November and December and caused 2 deaths in infants under one year of age.

DISINFECTION.

The Council provides disinfectants to infected houses, and stoving has been done in 45 cases. Bedding is disinfected when found necessary and 38 lots have undergone steam disinfection and 7 lots subjected to disinfection by sulphur fumes.

GENERAL SANITATION.

(a) Character of the District. — Willington is composed of the town of Willington and Brancepeth Colliery Rows, and has a population of 5,217 and an area of 1,551·759 acres.

Stockley comprises Oakenshaw and Pagebank Collieries, and has a population of 2,732, and an acreage of 2,342·379.

The land being mainly of a clayey character and sloping gradually towards the river Wear affords a good natural drainage to the whole district.

(b) Pollution of Streams.—The following streams flow through the district :—Willington burn, Old Hall beck, and Pagebank beck, into the former and latter of which sewage is discharged.

The sewage of Pagebank Colliery discharges directly into the river. It is intended to put in a scheme for the purification of this sewage shortly.

SEWAGE DISPOSAL.

The Stoddart Continuous Sewage Filter was laid down in 1904 to serve for 6,500 of the population and this, generally, has given satisfaction, there being little fault to find with the effluent.

CHIEF INDUSTRIES AND THEIR EFFECTS ON THE HEALTH OF THE PERSONS EMPLOYED.

The trade of the district comprises coal-mining, coke-making, and the manufacture of bricks, pipes, etc. The mines are well ventilated and free from gas. The workmen, generally, are of a healthy state of body, and do not suffer from any particular kind of disease arising from their employment. The accidents which occur are mainly due to fall of stone.

SMOKE NUISANCES AND OFFENSIVE TRADES.

Coke is manufactured largely in the district but no nuisance can be

considered to exist seeing that the surplus heat is used for heating boilers and making little waste material to be thrown into the air and that by tall chimneys.

BURIAL GROUND.

A Cemetery is situated in a central part of the district which is of convenient approach for the whole area. This year it has been extended by the addition of 3 acres of land and an attendant's house has been erected.

There is also a large Roman Catholic Cemetery at the west end of the town.

DISPOSAL OF EXCREMENT.

A considerable number of water-closets exist now in Willington and all newly built houses have either water or ash-closets constructed, but the general accommodation in the district is the ordinary open privy-midden which is, as a rule, very large and defective in construction, and often out of repair. Being uncemented and open to the air by which means they have in rainy weather a considerable amount of liquid contained in them which leaks out and percolates into the surrounding soil and fouls it, they are highly insanitary. In hot weather this fouled earth is no doubt largely the cause of zymotic disease as Diarrhœa, Enteric Fever and Diphtheria.

All badly constructed open privy-middens ought to be abolished as quickly as possible and ash-closets or properly cemented covered ashpits substituted.

Some of the newly-built houses have both water-closets and ash-closets provided.

The refuse is carted to the Council's depot at Low Willington, and to the tip belonging to the Colliery Owners, and some to the fields by farmers for manuring purposes. This is done very satisfactorily as a rule.

In Stockley the Colliery Owners provide their own tips.

The fouling of the main streets by the emptying of the midden-privy contents on to them from the back yards continues. As pointed out in former reports this is a likely source of disease in the hot summer months as well as being a great nuisance to the passers by. Water-closets should be substituted for the midden-privies and pails or buckets for the dry refuse.

SCAVENGING.

This is done by the Council by contract and is generally satisfactory. Complaints receive immediate attention.

HOUSE DRAINAGE.

The drains are made with sanitary pipes and are, I believe, all properly trapped.

COMMON LODGING-HOUSES.

There are none in the district.

BYE-LAWS.

These are allowed by the Local Government Board, founded on the Model Bye-laws.

SLAUGHTER-HOUSES.

There are 6 registered slaughter-houses in Willington and Stockley and they are periodically inspected. They have all been found in a sanitary condition.

DAIRIES AND MILK-SUPPLY.

The bulk of the milk is supplied by farmers but some by Cow-keepers. The dairies have all been inspected and found to be clean and no disease has been traced to this source.

COW-SHEDS.

These are kept in very fair order and lime-washing as a rule is regularly carried out. There is only slow progress made in the remedying of defects. They are chiefly of old construction, with faulty ventilation and most of them are badly lighted. The ventilation is mainly obtained by pipes or open spaces through the walls at or near to the heads of the animals which are very often blocked up to prevent a draught. This renders the byre very close and stuffy when the doors are closed and is therefore not good for the cows. There should be ample light given and top ventilation put into each byre. One such is undergoing renovation at present, but others ought also to be receiving attention.

DWELLINGS OF THE WORKING CLASSES.

The houses are cheifly built of brick and have two storeys. As a rule they are roomy and well lighted, and ventilated in the ordinary way by doors, windows and fire-places. Some are composed of four rooms, some three, and others two, but, as mentioned previous years, some have only a room on the ground floor and an attic. This latter is low, close, badly ventilated and lighted, hot in summer and cold in winter owing to to the roof being unceiled. There is a prospect of these houses being entirely done away with.

Renovations are taking place in connection with 38 houses whereby 2 rooms and an attic are being raised and converted into good 4-roomed dwellings with self-contained yard and wash-house. 17 of these have been completed and 11 tenanted.

Back-to-back houses exist in Mill Street, High Street, Commercial Street, Park Terrace, and Low Willington, as well as at Pagebank Colliery.

An amount of spouting still requires attention.

Back Commercial Street has been made into a good street, and another private street has been taken over by the Council.

Lydia Street has not yet been made but plans have been approved of for its making and it is intended to begin with it as soon as possible.

INSPECTIONS AND RESULTS.

Inspections have been made during the year and 135 informal written notices have been served ; and 6 formal notices by order of the Authority ; 135 have been complied with.

DIRECTION OF THE WORK OF THE INSPECTOR OF NUISANCES.

The Inspector receives his instructions from the Council and works jointly with the M.O.H.; he also fulfils the duties of Surveyor.

LEGAL PROCEEDINGS.

None.

NEW BUILDINGS.

Plans for the erection of 68 new houses have been approved of and certificates have been granted for 21 houses built during the year.

MEAT INSPECTION.

The meat has always been found fresh and in good condition and free from disease.

FOOD AND DRUGS ACT.

This is carried out by the Inspector to the County Council. No proceedings, to my knowledge, have been taken during the year.

LIGHTING.

The whole district is lighted by gas with the exception of Pagebank Colliery which is lighted by oil lamps. Four new lamps have been fixed.

WATER SUPPLY.

A plentiful supply of good, pure water is obtained from the Wear-

dale and Consett Water Company's works. The sewers are flushed by means of the water-cart in the hot months of summer. One well has been closed during the year, the water of which was found to be unfit for human consumption, and the Company's water has been laid on to 2 other houses.

PRECAUTIONS AGAINST FIRE.

A hose-and-reel are kept at the Council's yard in Albion Place, and there are three keys for the shed in which it is kept, one being at Mr. Wightman's on the spot, one at the Police Station, and one at the Surveyor's house. No fire occurred during the year.

SANITARY IMPROVEMENTS.

The following improvements have been effected :

1. 24 ash-closets and 1 water-closet have been substituted for privy-ashpits.

2. 21 yards have been re-paved with bricks or laid in cement concrete.

3. Defective drainage and traps in 35 instances have been remedied.

4. Repairs have been carried out at 3 farm-houses.

5. Licensed premises in three cases have been considerably improved.

6. Water supply to 3 houses has been improved.

7. Plans for the erection of 68 new houses have been approved of, and certificates have been granted for 21 new houses built during the year.

8. About 300 yards of new sewering has been laid.

9. One back street has been made.

10. Cemetery has been extended by 3 acres of land and Caretaker's house erected.

FACTORY AND WORKSHOP ACT.

Report of the Medical Officer of Health on the Administration of the Act in the Urban Sanitary district of Willington during the year 1907.

(A) Classification and Inspection.

Total number of Workshops in the District, as per Register :—27 ; including 24 Tenement Workshops, 3 Retail Bakehouses, not including 10 Factories.

Total number of visits of inspection made during the year, (*a*) by M.O.H., 111 ; (*b*) by Sanitary Inspector, 111.

Note as to the chief Workshop Industries in the the District :— Dressmaking, Saddlery, Bootmaking, Cabinet-making, Joinery, Printing, Brickmaking, and Gas manufacture.

(B) SANITATION.

Cleanliness—	General condition	Good
	Number of Notices served under P.H. Acts	None
	Number of Notices to cleanse under, Sec. 2 — Workshops None. Domestic Factories and Domestic Workshops	1
	Legal Proceedings	None
Air Space—	General Condition	Good
	Number of Notices to abate overcrowding	None
	Number of Notices to affix card, Sec. 3 (4)...	6 Verbal
	Legal Proceedings	None
Ventilation—	General condition	Good
	Number of Notices under P.H. Act ...	None
	Legal Proceedings	None

Means of Ventilation—Action taken under Sec. 7 :—Doors, Windows, Fireplaces, etc.

Drainage of Wet Floors—Action taken under Sec. 8 :—None.

(C) **Additional Sanitation for Retail "Bakehouses."** Secs. 97 to 102. Number of such premises in the District :—Three. Note as to their general sanitary condition :—All in good condition.

(Ca) **Underground Bakehouses**—Number of such premises in District :—None.

(D) **Sanitary Conveniences**—Number of defects discovered thereunder in factories or workshops during the year :—5. *(a)* Closets insufficient or unsuitable :—4. *(b)* Closets not separate for sexes : —1. Number of notices issued under the Section :—5.

(F) **Home Work**—Sections 107 to 115 :—Total number of Lists of Outworkers received during the year :—None.

(G) General.

Number and nature of sanitary defects reported to the Authority by H.M. Inspectors, during the year :—One. Required cleansing.

Action taken in consequence :—Defect remedied.

Number of infringements reported by Sanitary Authority to H.M. Inspector (*e.g.*, s. 133) :—None.

General Observations :—All places have been found satisfactory with the exception of the above defects.

RECOMMENDATIONS.

1.—The substitution of ash-closets for the old defective privy-middens.

2.—The substitution of water-closets and pails or buckets for dry refuse where contents of privy-middens have to be wheeled into the streets.

3. The repairing and paving of the footpath on the North side of the main street should be done as soon as possible.

4. The making, paving, and channelling of the private streets which are in a bad condition.

5. To continue improving the ventilation and lighting of the Cow-sheds.

I am, Gentlemen,

Your obedient servant,

R. E. BROWN, L.R.C.P., &c.

February 25th, 1908.

H. COATES, PRINTER, HIGH STREET, WILLINGTON.